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ABSTRACT

The present invention relates to a peptide for the specific recognition of lipid vectors. The peptide of the invention comprises the peptide sequence (I) below:

J¹-J²-J³-J⁴-J⁵-J⁶-Z⁷-U⁸-J⁹-J¹⁰-U¹¹-Arg-J¹³-J¹⁴-U¹⁵-Lys-Gly-
X¹⁸-Gly-Thr-J²¹-Glu-J²³-J²⁴-U²⁵-J²⁶-J²⁷-J²⁸-U²⁹-J³⁰-J³¹-
Arg-J³³-J³⁴-J³⁵-J³⁶-B³⁷-J³⁸-J³⁹-U⁴⁰-J⁴¹-J⁴²-J⁴³-U⁴⁴-J⁴⁵-J⁴⁶-J⁴⁷-
J⁴⁸-J⁴⁹-Arg-J⁵¹-U⁵²-J⁵³-J⁵⁴-Asp-U⁵⁶-Lys-Ser-Z⁵⁹-Leu-J⁶¹-J⁶²-
J⁶³-J⁶⁴-Z⁶⁵-J⁶⁶-J⁶⁷-U⁶⁸-J⁶⁹-J⁷⁰-J⁷¹-U⁷²-J⁷³-J⁷⁴-J⁷⁵ (I)

in which the amino acids J are chosen, independently of one another, from essential amino acids, or derivatives thereof, such that at least 50% of them are polar residues chosen from Arg, Asn, Asp, Cys, Gln, Glu, Gly, His, Lys, Orn, Pro, Ser, Thr and Tyr; the amino acids U are chosen, independently of one another, from Ala, Cys, Gly, Ile, Leu, Met, Phe, Trp, Tyr and Val; the amino acid X¹⁸ is chosen, independently of the other amino acids of the sequence, from Ala, Asn, Cys, Gln, Gly, His, Ile, Leu, Met, Phe, Ser, Thr, Trp, Tyr and Val; the amino acid B³⁷ is chosen, independently of the other amino acids of the sequence, from Arg, Ala, Cys, Gly, Ile, Leu, Met, Phe, Trp, Tyr and Val; the amino acid Z⁷ is chosen, independently of the other amino acids of the sequence, from Asp and Gly; the amino acids Z⁵⁹ and Z⁶⁵ are chosen from Glu, Asp, Lys or Arg; and the superscripts of the residues J, Z, U, X and B represent the position of these amino acids in said sequence.